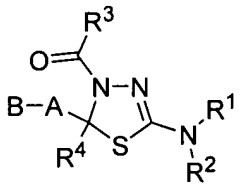
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A thiadiazoline derivative represented by the general formula (I), or a pharmacologically acceptable salt thereof:



(I)

<wherein,

R^1 represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, or substituted or unsubstituted cycloalkyl,

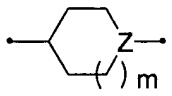
R^2 represents a hydrogen atom, or -COR^5 (wherein R^5 represents substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, or substituted or unsubstituted cycloalkyl), or

R^1 and R^2 are combined together with the adjacent nitrogen atom to form a substituted or unsubstituted heterocyclic group,

R^3 represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, or substituted or unsubstituted cycloalkyl,

R^4 represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group,

A represents $-(CH_2)_n-$ (wherein n represents an integer of 1 to 6), or a group of the formula (II)



(II)

(wherein m represents an integer of 0 to 2, and Z represents CH or a nitrogen atom capable of binding to B), and

(i) when A is $-(CH_2)_n-$, and n is 1 or 2,

B represents $-NR^6R^7$ {wherein R^6 represents a hydrogen atom, or lower alkyl, R^7 represents substituted lower alkyl, $-COR^8$ [wherein R^8 represents substituted lower alkyl (provided that R^8 is not trifluoromethyl), substituted lower alkoxy, substituted or unsubstituted aryloxy, a substituted or unsubstituted heterocyclic group, or

$-NR^9R^{10}$ (wherein R^9 and R^{10} are the same or different, and represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl,

substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group, or R^9 and R^{10} are combined together with the adjacent nitrogen atom to form a substituted or unsubstituted heterocyclic group)], or R^6 and R^7 are combined together with the adjacent nitrogen atom to form a substituted or unsubstituted heterocyclic group},

$-OR^{11}$ (wherein R^{11} represents substituted lower alkyl, substituted or unsubstituted lower alkanoyl, substituted or unsubstituted lower alkylcarbamoyl, substituted or unsubstituted di-(lower alkyl)carbamoyl, or substituted or unsubstituted heterocyclylcarbonyl),

$-SR^{12}$ (wherein R^{12} has the same meaning as that of the aforementioned R^{11}), or

$CH=NR^{13}$ (wherein R^{13} represents hydroxy, or substituted or unsubstituted lower alkoxy),

(ii) when A is $-(CH_2)_n-$, and n is an integer of 3 to 6 ,

B represents $-NR^{14}R^{15}$ {wherein R^{14} and R^{15} are the same or different, and represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, $-COR^{16}$ [wherein R^{16} represents substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted cycloalkyl, substituted or

unsubstituted aryl, a substituted or unsubstituted heterocyclic group, substituted or unsubstituted lower alkoxy, substituted or unsubstituted aryloxy, or $-NR^{17}R^{18}$ (wherein R^{17} and R^{18} are the same or different, and represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group, or R^{17} and R^{18} are combined together with the adjacent nitrogen atom to form a substituted or unsubstituted heterocyclic group)], or $-SO_2R^{19}$ [wherein R^{19} represents substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, or $-NR^{20}R^{21}$ (wherein R^{20} and R^{21} are the same or different, and represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, or substituted or unsubstituted cycloalkyl, or R^{20} and R^{21} are combined together with the adjacent nitrogen atom to form a substituted or unsubstituted heterocyclic group)], or R^{14} and R^{15} are combined together with the adjacent nitrogen atom to form a substituted or unsubstituted heterocyclic group},

$-OR^{22}$ (wherein R^{22} has the same meaning as that of the aforementioned R^{11}),

-SR^{23} (wherein R^{23} has the same meaning as that of the aforementioned R^{11}), or

-$CH=NR^{24}$ (wherein R^{24} has the same meaning as that of the aforementioned R^{13}),

(iii) when A is a group of the formula (II),

B represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkanoyl, substituted or unsubstituted lower alkoxycarbonyl, or substituted or unsubstituted lower alkylsulfonyl>.

2. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1, wherein R^1 is a hydrogen atom, or lower alkyl.

3. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~or 2~~, wherein R^2 is -COR^5 (wherein R^5 has the same meaning as that mentioned above).

4. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 3, wherein R^5 is lower alkyl.

5. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 3, wherein R^5 is tert-butyl.

6. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 5~~, wherein R^3 is lower alkyl.

7. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 5~~, wherein R^3 is tert-butyl.

8. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 7~~, wherein R^4 is substituted or unsubstituted aryl.

9. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 7~~, wherein R^4 is phenyl.

10. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 9~~, wherein A is $-(CH_2)_n-$ (wherein n has the same meaning as that mentioned above).

11. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 10, wherein n is 1 or 2.

12. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 11, wherein B is $-NR^6R^7$ (wherein R^6 and R^7 have the same meanings as those mentioned above, respectively).

13. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 12, wherein R^6 is a hydrogen atom.

14. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 12 ~~or 13~~, wherein R^7 is $-COR^8$ (wherein R^8 has the same meaning as that mentioned above).

15. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 12, wherein R^6 and R^7 are combined together with the adjacent nitrogen atom to form a substituted or unsubstituted heterocyclic group.

16. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 10, wherein n is an integer of 3 to 6.

17. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 10, wherein n is 3.

18. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 16 ~~or 17~~, wherein B is $-NR^{14}R^{15}$ (wherein R^{14} and R^{15} have the same meanings as those mentioned above, respectively).

19. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 18, wherein R^{14} is a hydrogen atom.

20. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 18 ~~or 19~~, wherein R^{15} is substituted or unsubstituted lower alkyl.

21. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 18 ~~or 19~~, wherein R^{15} is $-COR^{16}$ (wherein R^{16} has the same meaning as that mentioned above).

22. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 21, wherein R^{16} is a substituted or unsubstituted heterocyclic group.

23. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 21, wherein R^{16} is $-NR^{17}R^{18}$ (wherein R^{17} and R^{18} have the same meanings as those mentioned above, respectively).

24. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 18 ~~or 19~~, wherein R^{15} is $-SO_2R^{19}$ (wherein R^{19} has the same meaning as that mentioned above).

25. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 9~~, wherein A is a group of the formula (II).

26. (Original) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 25, wherein Z is a nitrogen atom.

27. (Currently Amended) The thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 25 ~~or 26~~, wherein B is a hydrogen atom, or substituted or unsubstituted lower alkyl.

28. (Currently Amended) A pharmaceutical composition which comprises the thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 27~~ as an active ingredient.

29. (Currently Amended) A mitotic kinesin Eg5 inhibitor which comprises the thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 27~~ as an active ingredient.

30. (Currently Amended) An antitumor agent which comprises the thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 27~~ as an active ingredient.

31. (Currently Amended) A method for inhibiting a mitotic kinesin Eg5 which comprises administering an effective amount of the thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 27~~.

32. (Currently Amended) A method for therapeutic treatment of a malignant tumor which comprises administering an effective amount of the thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 27~~.

33. (Currently Amended) Use of the thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 27~~ for the manufacture of a mitotic kinesin Eg5 inhibitor.

34. (Currently Amended) Use of the thiadiazoline derivative or a pharmacologically acceptable salt thereof according to claim 1 ~~any one of claims 1 to 27~~ for the manufacture of the antitumor agent.